

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A radio receiver comprising:
first and second antennas connected to a radio frequency (RF) processing circuitry by an-RF a radio frequency switch; and
an-RF a radio frequency switch control in communication with said-RF the radio frequency switch, said-RF the radio frequency switch control for switching between said the first and second antennas in response to a predefined schedule of a sequence of scheduled packet bursts, wherein said the predefined schedule is scheduled by a base station, wherein said the sequence of scheduled packet bursts comprises at least a first signal burst received via said the first antenna and a second signal burst received via said the second antenna, wherein the first signal burst and the second signal burst comprise identical packets of a common message.
2. (Currently Amended) The radio receiver of claim 1, wherein:
the sequence of scheduled packet bursts is prescribed by a ~~Quality of Service (QoS)~~ quality of service defined by a media access control (MAC) protocol.
3. (Currently Amended) The radio receiver of claim 2, wherein:
said-RF the radio frequency switch control is a MAC media access control processor that is synchronized with transmission of said the base station.
4. (Currently Amended) The radio receiver of claim 1, wherein:
the first and second antennas are switched so that each antenna receives a related packet burst.
5. (Currently Amended) A method of maintaining a controlled ~~Quality of Service (QoS)~~ quality of service in a wireless communication system, comprising steps of:
receiving scheduled communications from a transceiver at a transmission station

in accordance with a predefined schedule by wireless transceivers at receiving stations having switched protocol diversity reception operational modes, wherein said the predefined schedule is scheduled by the transmission station, where said the scheduled communications being formatted as multiple packet bursts;

enabling a first antenna to receive a first packet burst in accordance with said the predefined schedule;

enabling a second antenna to receive a second packet burst in accordance with said the predefined schedule, wherein the first packet burst and the second packet burst comprise identical packets of a common message;

recording the received bursts as soft information in a storage medium; and
combining the soft information from the first and second bursts into a single message.

6. (Original) The method of claim 5 wherein:

each packet burst contains a same complete message.

7. (Original) The method of claim 5 wherein:

each packet burst contains a portion of a space-time coded message spread across the first and second packet bursts.

8. (Currently Amended) A method of achieving a Quality-of-Service (QoS) quality of service control in a wireless local area network (LAN) communication system, comprising steps-of:

transmitting a message contained within a plurality of packet bursts occurring at spaced time intervals, wherein a first packet burst and a second packet burst of said the plurality of packet bursts comprise identical packets of a common message; and

receiving each of the packet bursts individually at one of a plurality of antennas in accordance with a predefined schedule, where said the predefined schedule is scheduled by a base station and is used to select one of said the plurality of antennas for receiving each of said the packet bursts.

9. (Previously presented) The method of claim 8 wherein;
each of the plurality of the antennas is connected to a radio receiver at separate times relative to other antennas.
10. (Original) The method of claim 8, wherein:
including a complete message within each packet burst.
11. (Original) The method of claim 8 wherein:
a message is spread across the plurality of packet bursts by space-time coding.
12. (Previously presented) The method of claim 8 wherein:
the transmitting combines a protocol with signal processing.
13. (Currently Amended) A communication system for coupling a transmitter and a receiver adapted for receiving at least a first signal burst and a second signal bursts burst by a first antenna and a second antennas antenna respectively, and responding to the two signal bursts to communicate a single unified message at the receiver; wherein whereby:
the first and second signal bursts are sequentially separated in time in accordance with a predefined schedule, wherein said the predefined schedule is scheduled by a base station, wherein the first signal burst and the second signal burst comprise identical packets of a common message;
the first and second antennas are sequentially enabled in accordance with said the predefined schedule to communicate with at least one a storage medium at the receiver; and
enabling a representation of the single unified message by responding to the first and second signal bursts.
14. (Canceled)
15. (Original) The communication system of claim 13, wherein:

the first and second signal bursts are each part of a space-time coded message spread across two bursts; and

a common message is derived from the sequential signal bursts received by the first and second antennas.

16. (Currently Amended) The communication system of claim 13, wherein:
said the enabling includes retaining the first and second signal bursts in said-at least-one the storage medium and processing to deliver the single unified message.

17. (Currently Amended) The communication system of claim 15, wherein:
said the deriving the common message includes selecting a message from one of the first and second antennas.

18. (Currently Amended) The communication system of claim 15, wherein:
said the deriving the common message includes decoding a space-time coded signal spread across and received by both the first and second antennas.

19. (Currently Amended) The method of claim 8, further including a-further-step-of: notifying a transmitter at a transmitting end by a receiving end of a number of antennas and radio receivers at the receiving end.

20. (Currently Amended) The method of claim 8, further including a-further-step-of: a receiver notifying a transmitter that said the receiver accepts and responds to protocol-assisted diversity operations.

21. (Currently Amended) The method of claim 8, further including a-further-step-of: upon reconstruction of a received message sending a message to a transmitting end to cease further message bursts.